

Case 3667***Paludina conica* Prévost, 1821 (currently '*Peringia*' *conica*)
(Gastropoda, Prosobranchia, HYDROBIIDAE): proposed conservation by
suppression of the senior homonym *Paludina conica* Férussac, 1814**

Dietrich Kadolsky

66 Heathurst Road, Sanderstead, Surrey CR2 0BA, U.K.

(e-mail: kadolsky@btsgeo.com)

Abstract. The purpose of this application, under Article 23.9.3 of the Code, is to suppress the unused and unidentified name *Paludina conica* Férussac, 1814, in order to protect the name *Paludina conica* Prévost, 1821 (currently '*Peringia*' *conica*), which has been consistently in use since its inception, and for which no junior replacement name is known, thereby avoiding the introduction of a replacement name. Both nominal species are fossils from the Tertiary of the Paris Basin.

Keywords. Nomenclature; taxonomy; Gastropoda; Prosobranchia; HYDROBIIDAE; *Paludina*; *Paludina conica*; gastropods; Tertiary; Paris Basin.

1. Férussac (1814, p. 64) introduced the nominal species *Paludina conica* by a reference to the description and figure of 'Bulime conique' by Brard (1810, p. 416, pl. 24, figs. 14–17), for a fossil from Tertiary strata from the environs of Lagny, and from St.-Leu Taverny, both in the Paris Basin, France. Férussac named this species as '*C. Conica*. Brard (Bul.)'. The '*C.*' stands for *Cyclostoma*, which is deemed to be an error, as the species is listed under the heading of *Paludina*, which follows a listing of species attributed to *Cyclostoma*. Thus Férussac's intention was to assign Brard's species to the genus *Paludina*, and it is deemed to be published in the original combination '*Paludina conica*'.

2. Prévost (1821, p. 427) introduced the name *Paludina conica* for a new species from Eocene strata in the vicinity of Paris. This species has subsequently been encountered in many localities in the Paris Basin, and it has been re-described and figured several times in the subsequent literature. The name has been consistently used without divergent views about its identity, but it is threatened by the unused senior primary homonym *Paludina conica* Férussac, 1814. There is no junior objective or subjective synonym available which could act as a replacement name. Prévost's species is the subject of a taxonomic review (Kadolsky, in press), which will also address its genus attribution. Currently it is placed in the genus *Peringia* Paladilhe, 1874 in the family HYDROBIIDAE.

3. A list of references has been supplied to the Commission to prove the consistent usage of the name *Paludina conica* Prévost, 1821. However, this name has not been used often enough to fulfil the condition of Article 23.9.1.1 of the Code, i.e. to prove 25 citations in the last 50 years. Consequently, protection of this name will be sought under Article 23.9.3. The list of 59 references supplied to the Commission Secretariat, covering the period 1821 to date, proves the lasting utilisation of this name.

4. *Paludina conica* Férussac, 1814 has not been mentioned in the subsequent literature with the possible exception of Mantell (1839, p. 232, pl. 39, figs.1–2), who figured '*Bulimus conicus*' from the Paris Basin, i.e. he applied Brard's genus attribution in its latinized form, although he did not cite any author or reference, and did not provide further information on the species. No taxon has subsequently been reported from Brard's original localities which could be identified with Brard's and Férussac's species. The strata known to outcrop at the supposed original localities differ widely in age. These observations suggest that one or both of them could be erroneous. Any attempt at identification of this *Paludina conica* Férussac, 1814 would require selecting a neotype, probably from a new type locality and type stratum. Because of the antiquity of Férussac's name, it would take precedence over the junior name given by Prévost (1821). In that case nomenclatural confusion would arise, as the name '*conica*' would have to be applied to a hydrobiid species, also occurring in the Paris Basin and possibly also in Eocene formations, different from the one that had been consistently named '*conica*' in the last 193 years; and most likely it would be a senior synonym of another named hydrobiid species, of which many are known from Tertiary strata of the Paris Basin.

5. The International Commission on Zoological Nomenclature is accordingly asked:

- (1) to use its plenary power to suppress the name *Paludina conica* Férussac, 1814 for the purposes of both the Principle of Priority and the Principle of Homonymy;
- (2) to place on the Official List of Specific Names in Zoology the name *conica* Prévost, 1821, as published in the binomen *Paludina conica*;
- (3) to place on the Official Index of Rejected and Invalid Specific Names in Zoology the name *conica* Férussac, 1814, as published in the binomen *Paludina conica*.

References

- Brard, P.** 1810. Second mémoire sur les lymnées fossiles des environs de Paris, et sur les coquilles qui les accompagnent. *Annales du Muséum d'Histoire Naturelle*, **15**: 406–421, pl. 24.
- Férussac, J.d'A. de.** 1814. *Mémoires géologiques sur les terrains formées sous l'eau douce par les débris fossiles des mollusques vivants sur la terre ou dans l'eau non salée*, 76 pp. Poulet, Paris.
- Kadolsky, D.** in press. *Lutetiella*, a new genus of hydrobioids from the Middle Eocene (Lutetian) of the Upper Rhine Graben and Paris Basin (Mollusca: Gastropoda: Rissooidea s. lat.). *Geologica Saxonica*, **61**(1).
- Mantell, G.** 1838. *The wonders of geology*, **1**. i-xvi, 1–376, appendix, glossary. Relfe & Fletcher, Cornhill, London.
- Prévost, C.** 1821. Sur un nouvel exemple de la réunion de coquilles marines et de coquilles fluviatiles dans les mêmes couches. *Journal de Physique, de Chimie et d'Histoire Naturelle*, **92**: 418–427.

Acknowledgement of receipt of this application was published in BZN **71**: 146.

Comments on this case are invited for publication (subject to editing) in the *Bulletin*; they should be sent to the I.C.Z.N., Natural History Museum, Cromwell Road, London SW7 5BD, U.K. (e-mail: iczn@nhm.ac.uk).